Master of Technology in Digital Leadership

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Overview

Next Intake	January 2024
Duration	Part-time 2 years (4 semesters)
Download Brochure	English
Info-session	Click here for dates
Enquiry	iss-admissions@nus.edu.sg

In today's world, almost every business is a digital business. In every industry, processes are being transformed by the pervasive use of digital technologies and rise of disruptive business models. To compete, businesses need to adapt and transform. Organisations need leaders who can think strategically to harness the digital change that create new opportunities for the business. This digital leadership programme prepares you to become effective leaders who can develop and lead strategies to transform businesses to thrive in the new digital economy

Key Takeaways:

- Develop a deeper understanding on the practice of digital business models and ecosystems.
- Gain the leadership skills to navigate complexity in leading a digital journey and drive breakthrough change for your organisation and generate new values for customers.
- Create effective roadmaps to bring about digital transformation in the business for competitive advantage, coupled with integrated digital talent strategies and culture.
- Enhance your ability and agility for strategic thinking, innovation and effective communication.
- Discover self-efficacy and personal stewardship in your digital leadership capacity.

It is about the job of the digital leader and how the role has become increasingly complex and multi-faceted as the innovative use of technology permeates through the organisation and drives new business models. New demands are mandated on today's leaders to reap the full benefit of digital opportunities, manage risks, complexity and uncertainties, and to drive cultural changes. This MTech DL programme focuses on digital strategy and leadership and will equip you with the critical thinking, hard and soft skills to become an effective leader. It will accelerate your career and enhance your ability to take on greater roles and responsibilities in digital leadership. You will be equipped with the right processes and people capabilities to ride the digital wave and to thrive in the digital economy. Our goal is also to help organisations to develop its next generation of digital leaders.

You may also explore the alternative pathway via the Professional Certificate Programme in Digital Leadership, where you get to earn independent Professional Certificates at your own pace while paving your way towards a Master of Technology Degree. Find out more at: NUS-ISS Professional Certificate Programme in Digital Leadership.

Who is This Programme For?

This leadership programme is uniquely designed to nurture next-gen business and digital leaders who will drive and integrate customer, people and technology strategies to transform and accelerate their businesses in the digital economy.

We invite suitably qualified professionals to join this programme, who are:

- Senior executives with transformation, innovation, e-business, organisational excellence and/or change management responsibilities who wish to strengthen their leadership capabilities to pivot and bring about transformation in the business for competitive advantage;
- Senior executives who are transitioning into such roles in the near future or preparing to further their careers as digital leaders;

You are likely to be holding a position as Corporate or Business Strategist, IT Lead/E-Business Lead, Innovation Lead/Change Lead, SVP/VP/AVP, MD, ED, Director, DD/AD and equivalent corporate roles.

Scholarship:

- **IMDA Post Graduate Scholarship:** The SG:D Scholarship (Postgraduate) is an industry scholarship that empowers students pursuing postgraduate studies in specialised ICM areas such as Artificial Intelligence, Cybersecurity, Analytics, Immersive Media, and Digital Content Creation. Scholarship details and eligibility criteria can be found here.

Programme Curriculum

The Master of Technology in Digital Leadership programme builds on a comprehensive curriculum comprising 9 course modules and a digital leadership capstone project. It is delivered through executive style teaching, guest speakers as well as highly interactive learning experience with peer learners from diverse industries. The programme is a 44 modular credit (MC) Master degree based on four major study areas: Practice of Digital Business, Digital Transformation, Digital Leadership & People and Digital Leadership Capstone. The curriculum strikes a balance between building deep leadership capabilities and functional skills and will be complemented by activities outside the classroom to reinforce learning.

Practice of Digital Business

Learn what is digital business and the different models of digital transformation and innovation. Analyse business models of platforms and software disruptors with case studies from diverse industries and how digital businesses create, deliver, capture and defend value. Understand digital agility and change imperatives for competitive advantage. Explore what are the emerging trends and the underlying economics of market disruptions, innovation and technologies

Courses:

Digital Organisation Models

"Digital Organisation Model" enables participants to acquire skill set to analyse, evaluate the different digital organisation models and the implementation considerations for such models. Some topics covered include SWOT analysis on leveraging Industry 4.0 and Smart Nation trends and opportunities, evaluation of digital model archetypes, building blocks of digital organisation, applying technology innovation with business innovations etc.

Digital Agility & Change Leadership

"Digital Agility and Change Leadership" enables participants to acquire skill set to lead their organisation with abilities to sense, response and adapt quickly to market changes and evolving customer needs in a complex and volatile digital business environment today. Some topics covered include practices of agile leadership style, implementation of agile practices, adopting digital first mind-set and developing cohesive change leadership strategies to increase organisation's agility and digital quotient.

Innovation by Design

"Innovation by Design" enables participants to acquire skill set to re-imagine organisation innovation and transform business with innovative product and services through strategies such as design thinking and adaptation of digital technologies. Some topics covered include applying design approaches such as customer-centricity, creative ideation and rapid experimentation to transform customer experience, leadership roles to foster organisation innovation culture, leveraging on open innovation ecosystem etc.

Digital Transformation

Embark on the journey to create and transform into digital business. Analyse through strategic thinking and foresight what transformation means for the business, what drives innovation by design and what it takes to win in a digital age. Use relevant frameworks to identify key areas to transform including integrated strategy, core processes and enabling technologies. Understand practical approaches to move from a legacy to a digital business. Learn the "how-to" with design of product portfolio, operating model and digital architecture.

Courses:

Strategic Thinking & Digital Foresight

"Strategic Thinking & Digital Foresight" enables participants to acquire skill set for strategic thinking and robust foresight that enable leaders to identify and implement digital transformation for organisation to realise the opportunities and manage risk of disruptive technological, economic and social change. Some topics covered include application of strategy framework for digital transformation, sense-making techniques, trends, horizon scanning & market driver analysis for digitalisation, scenario planning & strategy development, building digital capacity etc.

Digital Business Strategy

"Digital Business Strategy" enables participants to acquire skill set for creating digital business strategy and developing the digital product/service portfolio to create and transform the business. Some topics

covered include frameworks and strategies for creating a digital business, developing the digital product/ service portfolio &transformation roadmap, valuing and justifying business case for digitalisation, leadership skills to collaborate with key stakeholders to drive and evolve the digital strategy etc.

Mastering Digital Architecture

"Mastering Digital Architecture" enables participants to acquire skill set to evolve enterprise IT architecture in the context of digital transformation and to design the digital architecture that is flexible, scalable and adaptable to changes that enable business to be disruptive and innovative. Some topics covered include analysing architectural trends for digital transformation, design and implementation considerations for a digital architecture to support new business models and emergent technologies, Platform architecture, best practices and governance of digital architecture etc.

Digital Leadership & People

Develop leaders with strategic thinking and team building skills. Understand the type of talents, competencies and capabilities needed to lead a cross organisational digital business strategy and transformation effort. Develop the compact needed to establish and support high performance transformation team and to sustain the digital culture. Learn about leadership and challenges in managing complexity and digital governance.

Courses:

Talent & Leadership Pathways

"Talent & Leadership Pathways" enables participants to acquire skill set to lead high-performing digital workforce, drive change and interact strategically across boundaries with multiple stakeholders in the complex business environment, through developing leadership quality such as self-awareness, strategic thinking, and influencing skills. Some topics covered include creating responsive organisation, developing competencies of the digital leader, harnessing talent from everywhere and the learning pathways and development for future-ready digital workforce etc.

Managing Digitalisation Complexity

"Managing Digitalisation Complexity" enables participants to acquire skill set to deal with volatility, uncertainty, complexity, ambiguity (VUCA) and rapid changes to sustain competitive advantage in a complex digital economy. Some topics covered include system thinking, complex project management, scaling enterprise product management, strategies for crisis management, driving process and operational excellence, leading networked organisations, managing complexity in global workforce etc.

Digital Governance

"Digital Governance" enables participants to acquire skill set to develop digital governance framework for establishing accountability, key roles and decision-making authority for an organization's digital strategy that are aligned to corporate governance, policies and management structure. Some topics covered include evolving traditional IT governance, risk and compliance model to meet requirements of digital business, collaborating with senior management and key stakeholders, establishing linkages between

digital and broader corporate governance practices to ensure effective risk and performance management etc.

Digital Leadership Capstone

Key highlight of this programme is the 9-month Digital Leadership Capstone project that brings together all the disciplines that participants have encountered in the programme. Participants reflect, apply and synthesise the knowledge, skills and techniques that they have learnt in class and apply to a real-life organisation. They will integrate what they have learnt with how they, as the Digital Leader, will have to perform digital business transformation and solve real-world problems for a target organisation. Participants will work in groups and are mentored by industry advisors to deliver the capstone project.

Learning Journey

Practice of Digital Business

> Digital Organisation Models

> Digital Agility & Change Leadership

> Innovation by Design

Digital Transformation

> Strategic Thinking & Digital Foresight

> Digital Business Strategy

Mastering Digital Architecture

Digital Leadership & People

Talent & Leadership Pathways

Managing Digitalisation Complexity

Digital Governance

Digital Leadership Capstone

Capstone Project

The Digital Leadership capstone project

The capstone project takes place over a period of 9 months. Participants will work in groups to perform their capstone projects, with an expected time commitment of 40 man-days per team member.

Objectives:

- Bring together all disciplines encountered in the programme
- Apply knowledge, skills and techniques learnt in class to a real-life environment

Key Takeaways:

- Progressively compile a portfolio of observations, findings and recommendations on the target company/organisation
- Demonstrate the ability to present and communication final recommendations at the executive level

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Timetable & Exams

Part-Time MTech (DL) Programme Time-Table

1st Semester	2nd Semester	3rd Semester	4th Semester
DL5101 Digital Organisation Models	**DL5202** Digital Business Strategy	**DL5203** Mastering Digital Architecture	**DL5301** Talent & Leadership Pathways
DL5201 Strategic Thinking & Digital Foresight	**DL5102** Digital Agility & Change Leadership	**DL5302** Managing Digitalisation Complexity	**DL5303** Digital Governance
DL5103 Innovation By Design		**DL5107** Digital Leadership Capstone	

Course participants will be assessed through a combination of continuous assessment assignments and class participation, as well as deliverables from the capstone project module with real-world application. To become MTech DL graduates, participants are required to successfully complete and pass all 9 course modules and a digital leadership capstone project:

- In no two consecutive semesters have a CAP of less than 2.5
- In no three consecutive semesters have a CAP of less than 3.0
- Achieve a minimum CAP of 3.0 after completing the entire programme.

Fees

	Singapore Citizens / Singapore Permanent Residents	International Students
Full Tuition Fees	S$50,000	S$50,000
NUS-ISS Subsidy	S$5,000	-
Nett Tuition Fees	S$45,000	-

*8% GST on Nett Tuition Fees	S$3,600	S$4,000
*Total Fees payable with GST	S$48,600	S$54,000

Note:

1. *GST reflected is subject to prevailing changes.
2. The miscellaneous fees payable are set out here.

Fees for existing students There is no change in fees and subsidies.

Admission & Application

Applicants must possess the following pre-requisites:

- A bachelor's degree from an accredited institution preferably in Science, Engineering, Computing, Business or a related discipline and a grade point average of at least B
- A minimum of 5 years of full-time relevant work experience after first degree
  - Presently holding a senior or management position
  - Demonstrate digital acumen and work exposure to digitalisation
  - Have the passion and potential to assume a digital leadership position
  - A passionate learner with an ambition to shape the future and the ability to make things happen
- Demonstrate proficiency in English (written and spoken)*
- Have received a favourable assessment at admissions interview conducted by NUS-ISS. Admission is on a competitive basis and preference will be given to applicants with related job experiences

English Language Proficiency
Applicants who graduated from universities where English is not the medium of instruction should submit TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) score as evidence of their proficiency in the English language.

- **TOEFL** : Paper-based test (580)   : Computer-based test (237)   : Internet-based test (85)

- **IELTS**   : Result of 6.0

Note: Institution code of NUS-ISS for TOEFL is 2432

TOEFL and IELTS are only valid for five years after the test and the validity should not expire before the beginning of the application period for the coursework programme.

How to Apply

All applicants are required to submit an online application for our graduate coursework programme.

Step 1:   You can refer to our detailed **step-by-step guide** on how to complete the online application.

Step 2:   It will take you about 30 minutes or more to complete your application. You will need the softcopies of the supporting documents for your online application. Click **here** for the supporting documents to be uploaded and additional information required.

Step 3:   You can proceed to **apply online**. Remember to **upload all the required supporting documents** under the "**Documents Upload**" section **before** you do the online submission. You can refer to our **FAQ**.

Step 4:   Please ensure you **submit** your online application(s) and make **online payment** for the application fee (non-refundable) of **S$50.00** per application (*inclusive of prevailing GST*).

Important:

1. *Applications that are **incomplete**, including missing supporting document(s), **will not be processed**.*
2. *Applicants who are found to have given inaccurate or false information will be required to withdraw from the programme.*
3. *All payments for application fee are **non-refundable.***
4. *Please note that the University has not engaged any external agencies to undertake student recruitment on its behalf. Candidates interested in our graduate programmes are advised to apply directly to the University and not through any agents. Candidates who apply through agents will not have any added advantage in gaining admission and the University reserves the right to reject such applications without giving reasons.*

Career Pathways

Find your fit with new opened doors

Our Master of Technology in Digital Leadership programme (MTech DL) focus on digital strategy and leadership. Aimed at seasoned professionals with the ambition to shape the future, you will get a solid grounding in digital business models, how tech-based innovations drive and transform a business. It will equip you to become a leader in business-technology strategy and digital transformation. You will acquire the necessary critical thinking, process and people skills to lead an organisation to thrive and harness the digital economy.

Career Prospects

- Chief Technology Officer
- Chief Information Officer
- Chief Digital Officer
- Chief Transformation Officer
- Digital Transformation Director
- Business Transformation Director
- E-Business Director
- IT Director
- Strategic Digital Planning Director
- Program Director
- Digital Marketing Director

Our Participants across Diverse Industries

Chen Mushi Luke

Chief Intelligence Officer at HEPMIL Media Group

Master of Technology in Digital Leadership (MTech DL),

"*Taking a frontloading approach to my personal learning, the M
sufficiently equipped me with the experience, knowledge & ski
roles well. Very thankful to NUS-ISS for supporting my learning
classmates who shared their valuable work insights.*"

Julie Seah

Manager, Safety Security & Quality Development, Singa

Master of Technology in Digital Leadership (MTech DL),

"*The Master of Technology in Digital Leadership programme is
and covers a broad spectrum of leadership and digital strategy
me with skills and knowledge to formulate and implement digit
with SIA's Digital Transformation vision.*"

Felix Ang

Deputy Director, Monetary Authority of Singapore

Master of Technology in Digital Leadership (MTech DL),

"*Beyond a relevant curriculum that imparts digital fluency and know-how, the MTech DL capstone project value-adds my care*

Chen Mushi Luke

Chief Intelligence Officer at HEPMIL Media Group

Master of Technology in Digital Leadership (MTech DL),

"*Taking a frontloading approach to my personal learning, the M sufficiently equipped me with the experience, knowledge & ski roles well. Very thankful to NUS-ISS for supporting my learning classmates who shared their valuable work insights.*"

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Our Students

Building up a portfolio for work and life.

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Internship & Placements

Get a headstart with actual work experience under your belt.

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Career Services

Receive job placement opportunities with partner organisations.

Find Out More

Teaching Staff

Learn from our teaching staff with more than 20 years of industry experience.

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